

Creating a culture of Quality by embracing devops

Nayana Shetty Tech Lead, Infrastructure Delivery Financial Times





1. Testers to QAs

2. Using Devops practices

3. Sustaining the culture across teams



1. Testers to QAs

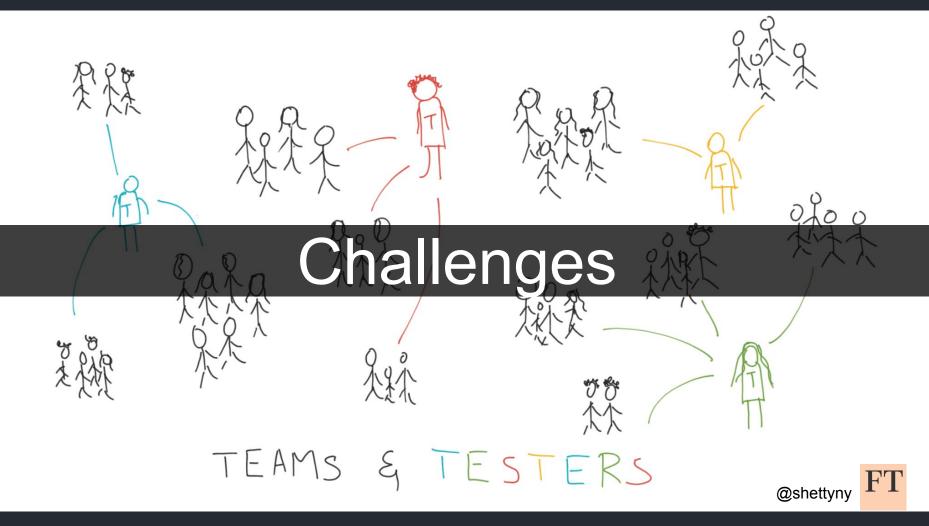




Testers

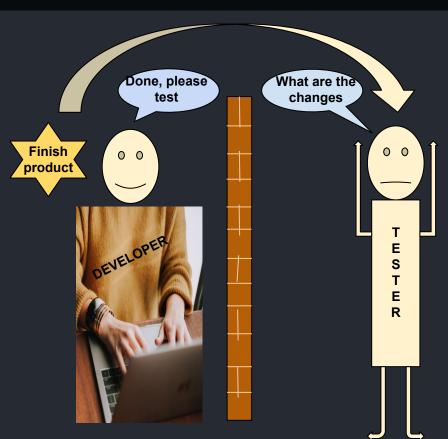






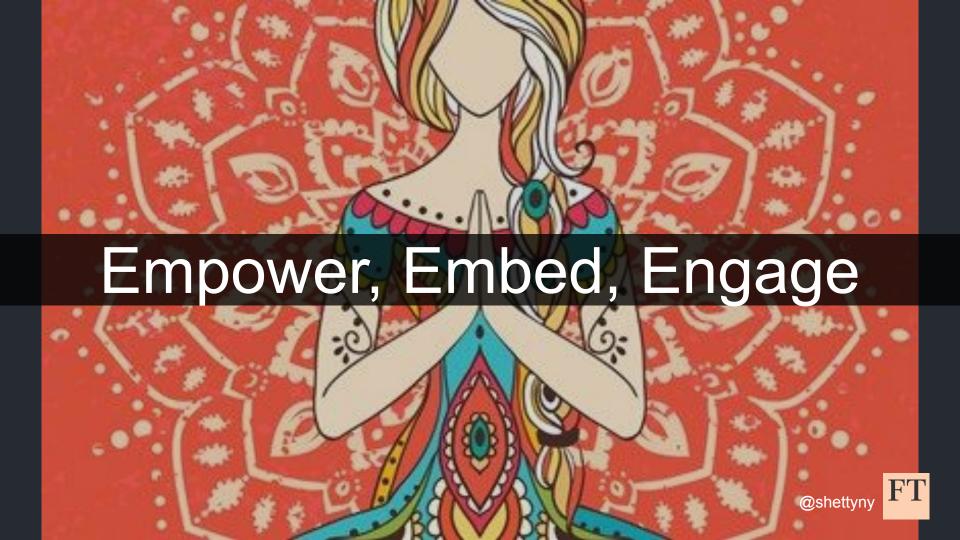
STOP

START

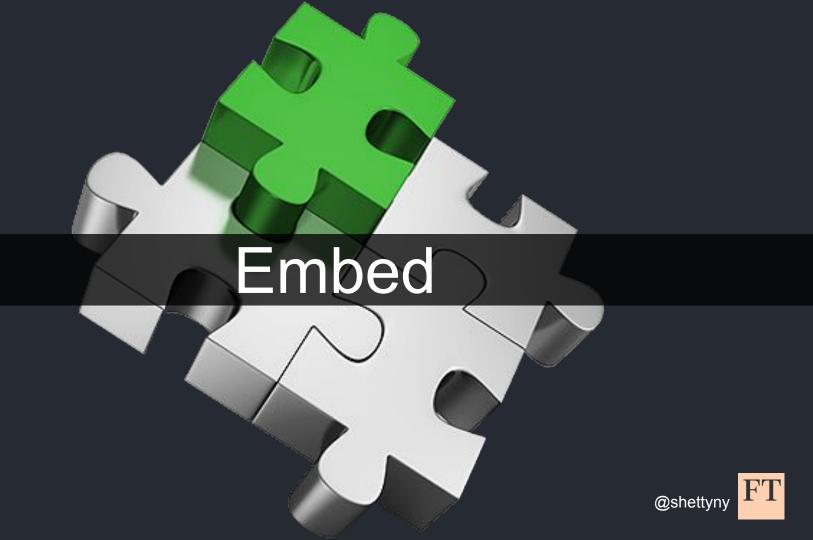


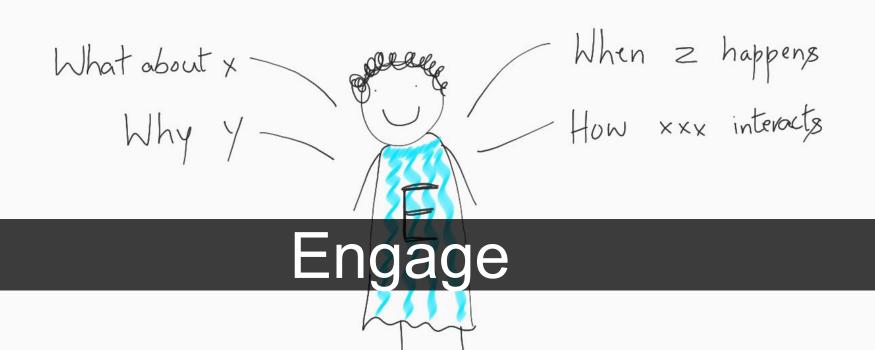












Problem: Late to a meeting



ENGINEERING CHECKLIST 2.0

To Help You Build The Right Product
And Build The Product Right

This latest version of the engineering checklist is designed to be simple to follow and apply. Detailed below are the minimum set of activities which must be considered before, during and after building services. Each tile contains basic pointers for you to consider and apply along with a links to more information, clicking on the link icons will take you to more information. The aim is to ensure we achieve a minimum standard in delivery which helps protect the integrity of our offerings to our customers.

CHECKLIST SIMPLE TEXT VERSION

Buy or Build

cost of ownership?



5 Security & Privacy



Release logs & CRs



- Is there something out there that does what we need?
 Have you considered the total
- Have you checked the Cyber
 Security Checklist?
 Fines for breaches start at

€20 million

- 9
- Automated release logs built into your CI job
 CRs raised for any changes



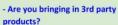
instances for your product
- Power down what you don't

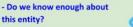
- Power down what you don't need on

- Chose the right sized cloud



Technical Due Diligence







Supplier DB updated



- Needed by all support levels in case of issue



10 Runbook

applied manually

 system code & service tier appropriate info supplied?

- your info will appear in dewey

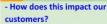






ASG Approval

Customer Focused



- How will they learn about it?
- Are we building solutions fit for their needs?



Healthcheck &

- Make sure you cover basic availability as a minimum
- Service status endpoint via / health



Support Rota

- For 3rd line support of your products
- Manage the rota within the team, keeping it up to date





Agree Service Tier

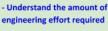
- Introducing new technologies

- Do you need to do something

not aligned to current strategy?

or design pattern?

 What level of support will your product need?
 Understand the amount o





success?

- How will you measure the use of this?- What are your targets for

Analytics





- Define the performance SLAs for your product
- Measure and monitor performance



Feedback & Questions

this to

- Speak to your QA Lead for any questions about using the checklist - For general feedback, please send



1 Buy or Build

- Is there something out there that does what we need?
- Have you considered the total cost of ownership?





- Make sure you cover basic availability as a minimum
- Service status endpoint via

/_health

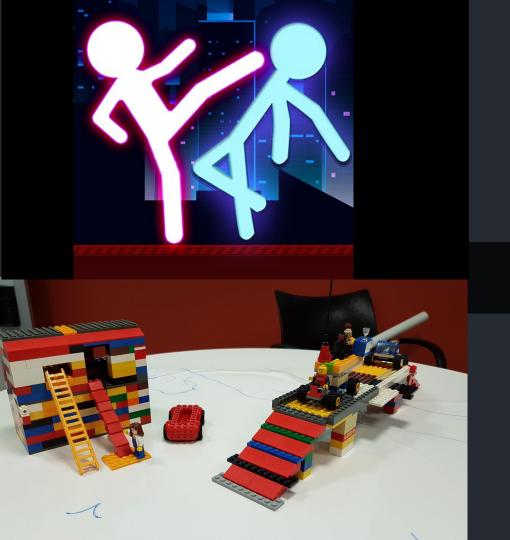




13) Cost Management

- Chose the right sized cloud instances for your product
- Power down what you don't need on





Stick or Carrot





THE SCIENCE OF DEVOPS

ACCELERATE

Building and Scaling High Performing Technology Organizations

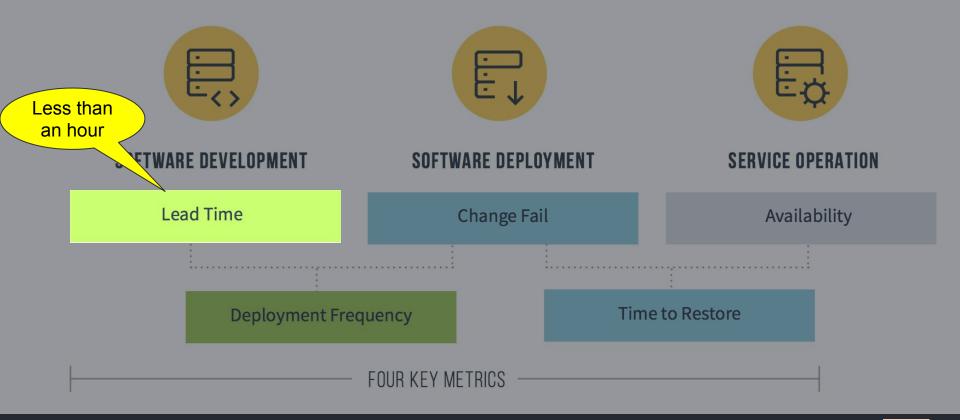


Nicole Forsgren, PhD Jez Humble and Gene Kim

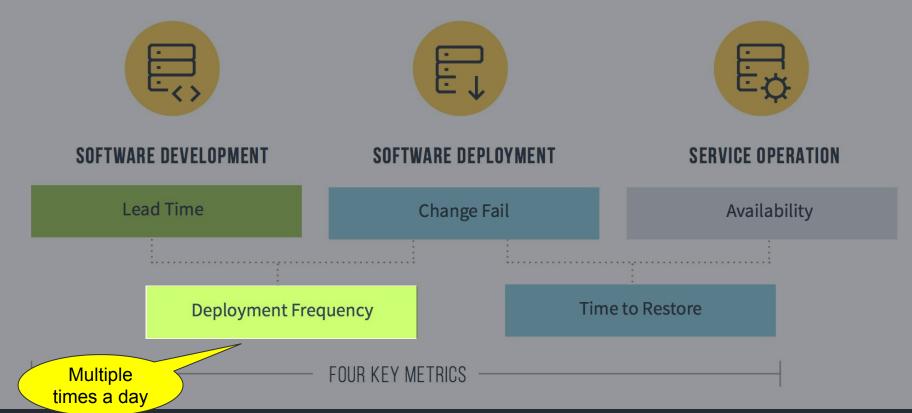
State of Devops, Accelerate book



PERFORMANCE METRICS

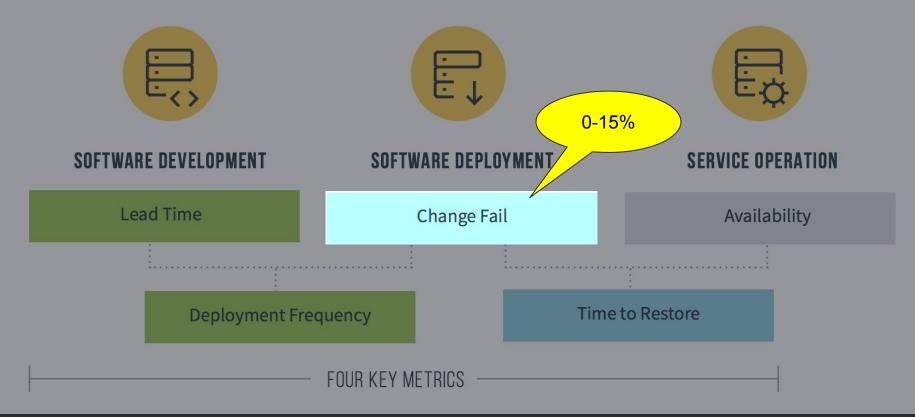


PERFORMANCE METRICS

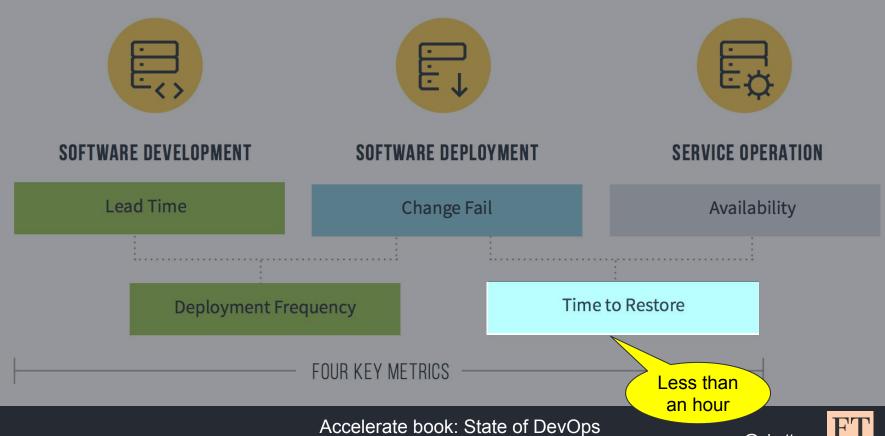




PERFORMANCE METRIC



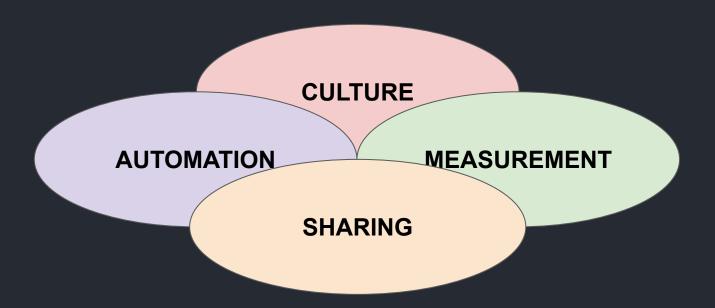
PERFORMANCE METRICS





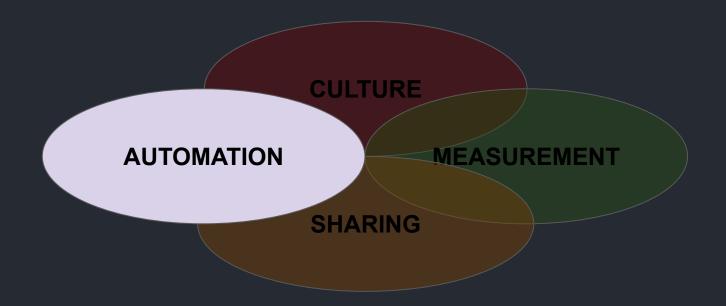
2. Using Devops practices



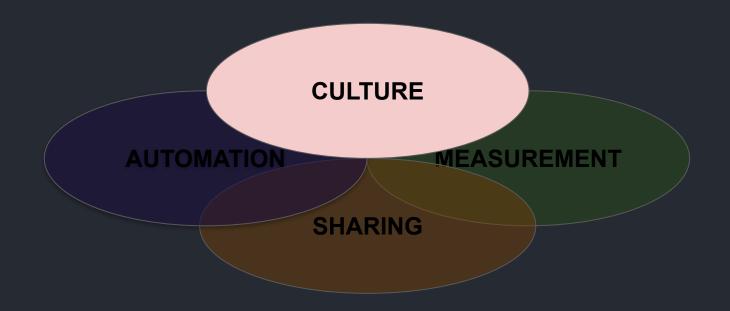


By: Damon Edwards, John Willis

















Creating a Psychologically Safe Space



· Value people's time Ask questions that help you or others to understand · Ask for feedback and input from teammates; invite them to challenge your thinking · Be willing to reflect on constructive criticism Share information about how you like to work (and be aware of how it might differ from other people's) · Be open and honest about things that aren't working well Keep in mind the ethical implications of technology and how it is used Things that we try not to do · Blame individuals when things go wrong · Talk over people • Shout at each other (strong disagreement is fine) · Point at people · Belittle the opinions of others • Defer to seniority when you know that something is not right Avoid difficult conversations · Bear grudges As a Senior in the team we will also try and set an example by

@shettyny

CULTURE

Things that we try to do

improvements.

Stay focused on the person who is speaking (e.g in meetings)

Following a workshop in January 2019, the team came up with a set of guidelines for how we would like to work together. These guidelines are geared towards increasing a sense of

Psychological Safety in simple terms feeling safe to take risks or be wrong within the team.

This is a living document - everyone in the team should feel free to add suggestions or

- Be an active listener
- Be approachable and available for other members of the team



Ask for feedback, invite others to challenge your thinking



Be open and honest about things that aren't working well

Things that we try to do

Ask questions even if they are silly

Stay focused on the person who is speaking



Value people's time



Bear grudges

Talk over others

Things that we try not to do

Point at people

Avoid difficult conversations





Calling out good work by other members around

Learning out loud

Admit when we don't know things

As a senior in the team

Notice who is blocked, help them and encourage them to ask for help in future

Say that we approve others views

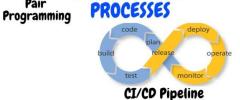




Teams defining their own quality standards





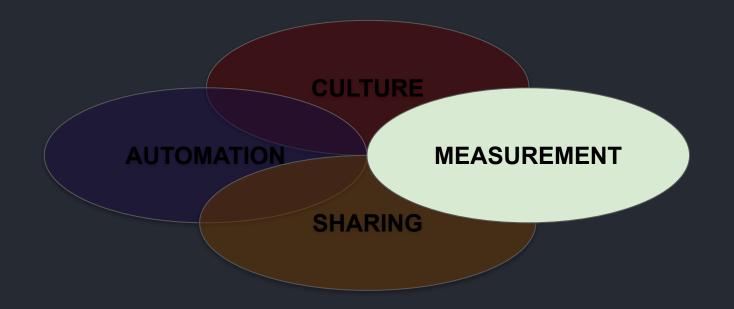


Pair

Disaster Recovery Testing RELIABLE & DURABLE









Automated changelogs



Change API APP 10:16 AM



Google Mangelator was released in prod by I

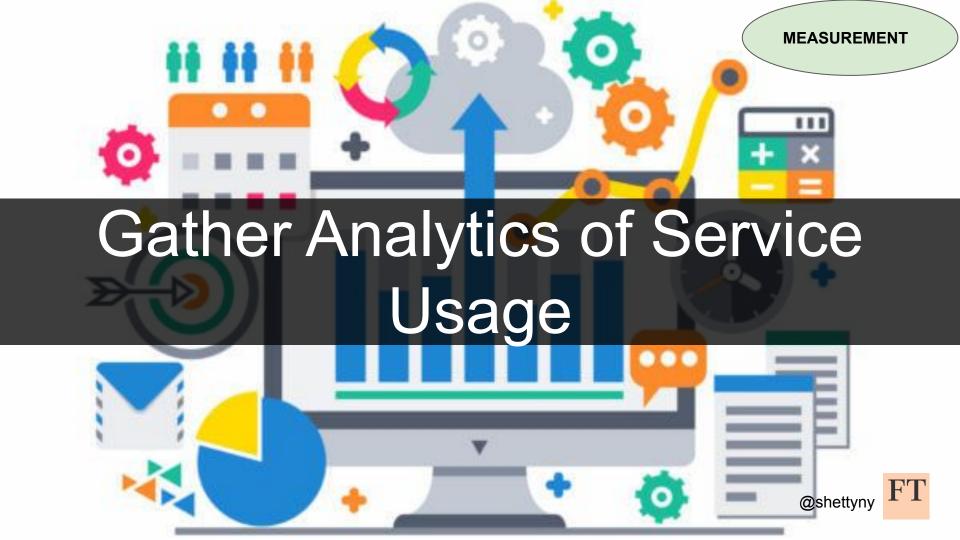
circleCITag:

googleAppSync deploy-prod 667

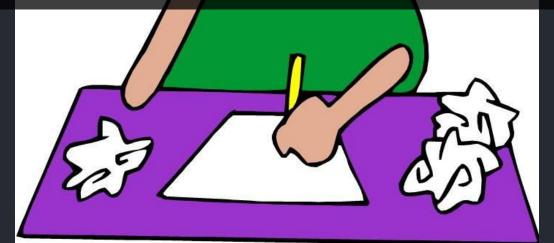
77 Change logged at 9:15 am UTC on Tue, 30 July 2019 Leave feedback



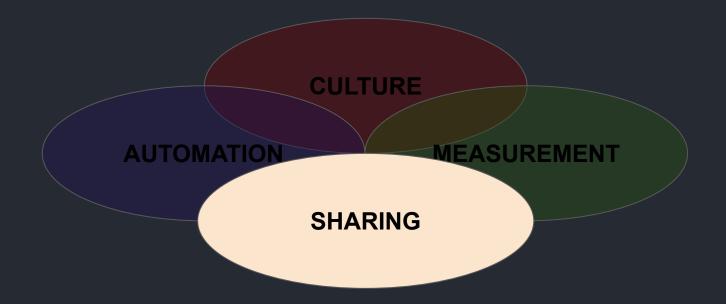




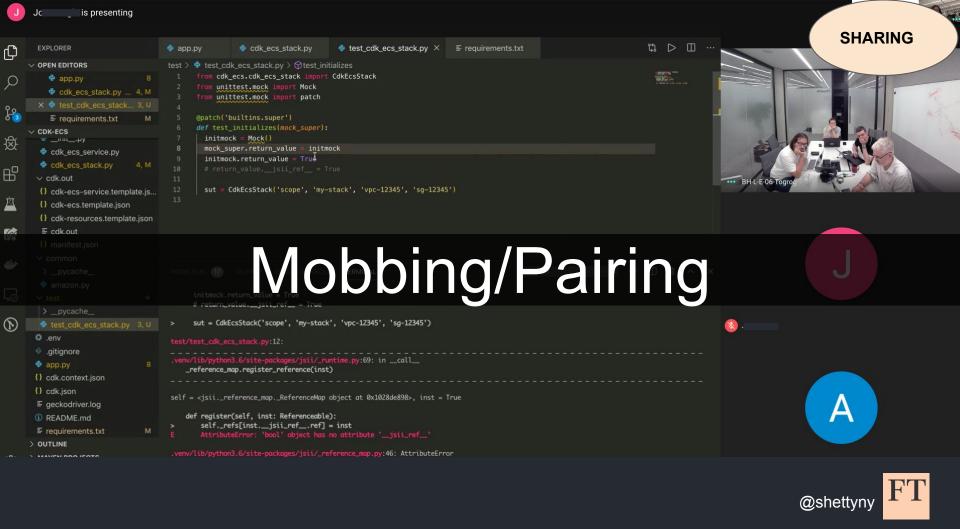
Measurements are hard













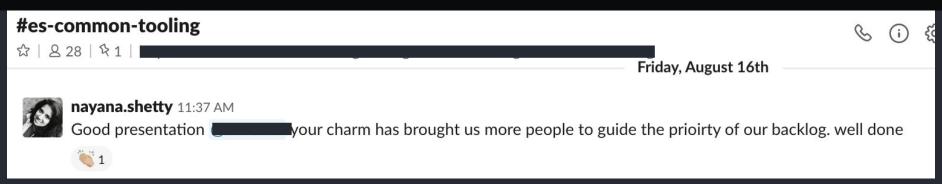




Showcases and Demos



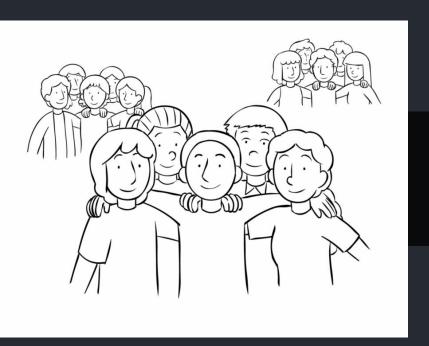
Showcases and Demos





3. Sustaining the culture





Empower the teams

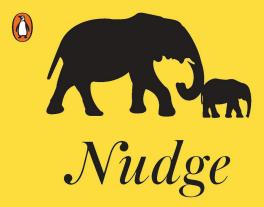


RICHARD H. THALER

WINNER OF THE NOBEL PRIZE IN ECONOMICS

and CASS R. SUNSTEIN

WINNER OF THE HOLBERG PRIZE



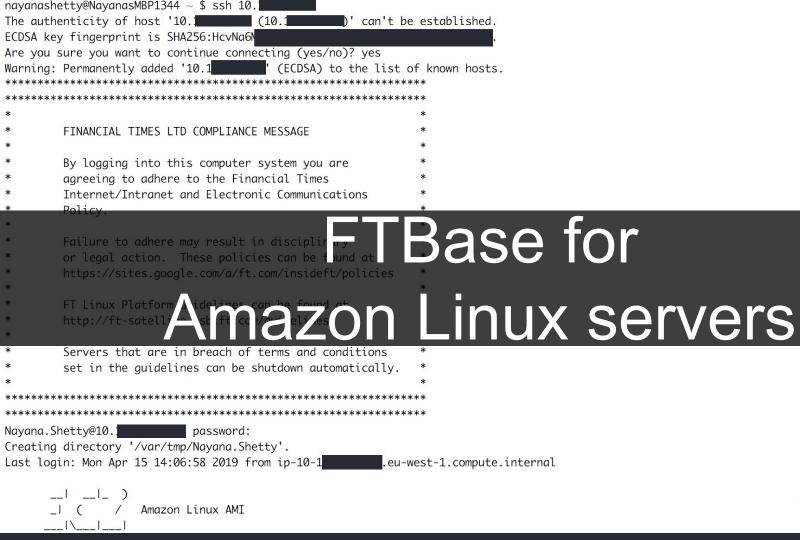
NEW YORK TIMES Bestseller

Improving Decisions About
Health, Wealth, and Happiness

"One of the few books . . . that fundamentally changes the way I think about the world." —Steven D. Levitt. coauthor of FREAKONOMICS

Use Nudge theory





@shettyny FT

Automate positive behaviours





ID Bot APP 12:00 PM

This sprints actions are:

Investigate / feedback availability of meeting rooms Stay focused on sprint goal & prioritise sprint goal tasks Decide when we should mob and when we should pair

This sprints goal is:

CircleCI pipeline for ECS cluster created

Automate positive behaviours



Automate positive behaviours



ID Bot APP 2:52 PM

nayanashettyft just edited this wiki page!

What Does Quality Mean to Us

sent by id-bot



Take time to test Disaster Recovery

DISASTER RECOVERY WEEK NOV 2018





tl;dr



The Journey is as important as reaching the destination



- The Journey is as important as reaching the destination
- Testers and QAs are different



- The Journey is as important as reaching the destination
- Testers and QAs are different
- Using CAMS model fosters product quality



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- Sustaining the culture by Nudging empowered teams



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EXPERIMENT, RETROSPECT & KEEP AN OPEN MIND



Resources



- Accelerate book, state of devops report
 - https://cloud.google.com/blog/products/devops-sre/the-2019-accelerate-state-of-devops-elite-performance-productivity-and-scaling
- CAMS model by Damon Edwards and John Willis
- 5 WHY Technique
 - https://kanbanize.com/lean-management/improvement/5-whys-analysis-tool/
- Talk on Nudge theory: Influencing Empowered Teams by Sarah Wells
 - https://www.youtube.com/watch?v=PWwDJEuTaLA
- Medium post on "Are we ready for a disaster" by Nayana Shetty
 - https://medium.com/ft-product-technology/are-we-ready-to-recover-from-a-disaster-957931551e73



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Thank You

